



FIG. 1A

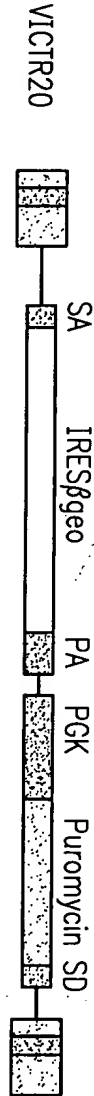
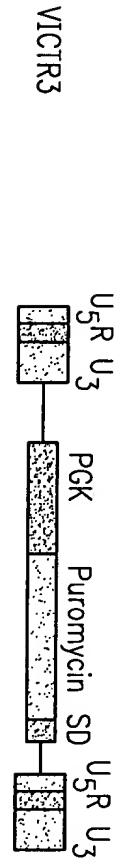
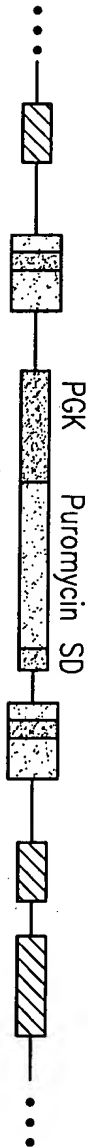


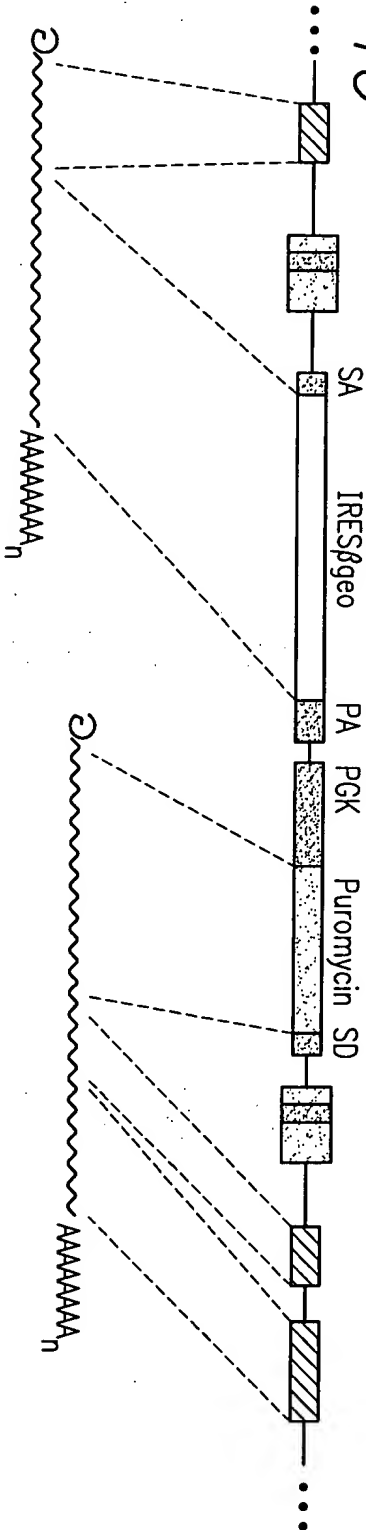
FIG. 1B

WILDTYPE LOCUS ...



AAAAA_n

FIG. 1C





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FIGURE 2
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FIGURE 2

OST114198 OC8729 (Similar To: AA791497)
OST116050 OC11313 (Similar To: AA474901)
OST116739 OC1355 (Similar To: AA563095)
OST118079 OC11070 (Similar To: AI157392)
OST123840 OC17436 (Similar To: AA693056)
OST125603 OC10138 (Similar To: AA338690)
OST123893 OC8202 (Similar To: AV126723)
OST126932 OC21547 (Similar To: AI606698)
OST125827 OC21569 (Similar To: AA545258)
OST125898 OC21575 (Similar To: AI114955)
OST125959 OC21590 (Similar To: AI840235)
OST125983 OC21597 (Similar To: AI552250)
OST126022 OC21604 (Similar To: AA538375)
OST127436 OC21618 (Similar To: AI851301)
OST126343 OC21653 (Similar To: AI428823)
OST126359 OC21657 (Similar To: AI504897)
OST126387 OC21660 (Similar To: AI747018)
OST126431 OC21666 (Similar To: AA444250)
OST126449 OC21667 (Similar To: AA014831)
OST126476 OC21672 (Similar To: AI228158)
OST126598 OC21686 (Similar To: AA013850)
OST126608 OC14104 (Similar To: AA239671)
OST126665 OC21692 (Similar To: AI549163)
OST126670 OC21693 (Similar To: AI552025)
OST126720 OC21698 (Similar To: AA162305)
OST126723 OC21699 (Similar To: AA472426)
OST126744 OC21703 (Similar To: AI505521)
OST126769 OC21709 (Similar To: AV145606)
OST126790 OC21715 (Similar To: AV093215)
OST126811 OC21720 (Similar To: AI046973)
OST126834 OC21724 (Similar To: AV118743)
OST126866 OC21728 (Similar To: AA098144)
OST126880 OC21731 (Similar To: AI848309)
OST126886 OC21732 (Similar To: AA914442)
OST126897 OC21733 (Similar To: AI573780)
OST126922 OC21736 (Similar To: AI037622)
OST126931 OC21737 (Similar To: AA881319)
OST126935 OC21738 (Similar To: AA791478)
OST127035 OC21760 (Similar To: AA259605)
OST127054 OC8809 (Similar To: AI449209)
OST127105 OC21772 (Similar To: AA816228)
OST127133 OC21779 (Similar To: AI788152)



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OST127174 OC21782 (Similar To: AA030194)
OST127191 OC21784 (Similar To: AA259844)
OST127336 OC21811 (Similar To: AA387782)
OST127346 OC21817 (Similar To: AA153672)
OST127423 OC21827 (Similar To: AA086985)
OST127426 OC21828 (Similar To: AI504070)
OST127450 OC21833 (Similar To: W71511)
OST127506 OC21843 (Similar To: AA879898)
OST127509 OC21845 (Similar To: AI427240)
OST127692 OC21868 (Similar To: AA050351)
OST127753 OC21878 (Similar To: AA171322)
OST127762 OC21880 (Similar To: AA036177)
OST127804 OC21889 (Similar To: AI506403)
OST127808 OC21890 (Similar To: AA990330)
OST127812 OC21891 (Similar To: AA200668)
OST127875 OC21903 (Similar To: AA410072)
OST127964 OC21904 (Similar To: AI647908)
OST127895 OC21906 (Similar To: AI647487)
OST128006 OC21922 (Similar To: AA763225)
OST128014 OC21923 (Similar To: AI120288)
OST128043 OC21930 (Similar To: AA139270)
OST128083 OC21938 (Similar To: AA562445)
OST128107 OC21943 (Similar To: AI194439)
OST128109 OC21944 (Similar To: AI194439)
OST128111 OC21945 (Similar To: AI194439)
OST128128 OC21948 (Similar To: AI385966)
OST128208 OC21956 (Similar To: AI450276)
OST128285 OC21966 (Similar To: AA241808)
OST128304 OC21968 (Similar To: C89508)
OST128356 OC21972 (Similar To: AA152982)
OST128373 OC21973 (Similar To: AA546519)
OST128407 OC21979 (Similar To: AA271059)
OST128415 OC21980 (Similar To: AA137957)
OST128425 OC21982 (Similar To: AA408830)
OST128534 OC21993 (Similar To: AA967255)
OST128584 OC22002 (Similar To: AI661305)
OST128632 OC22009 (Similar To: AA764230)
OST128683 OC22019 (Similar To: AV043661)
OST128739 OC22029 (Similar To: AA718379)
OST128770 OC22036 (Similar To: AI449409)
OST128774 OC22037 (Similar To: AA833329)
OST128780 OC22040 (Similar To: AI604451)
OST128813 OC22044 (Similar To: AA175580)
OST128880 OC22051 (Similar To: AI789522)

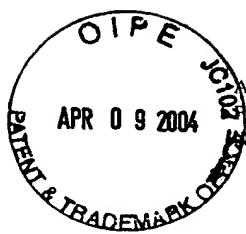


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OST128900 OC22054 (Similar To: AI303317)
OST128952 OC22061 (Similar To: AI605196)
OST128969 OC22063 (Similar To: X98200)
OST128996 OC22071 (Similar To: AI558020)
OST129092 OC22082 (Similar To: AA063763)
OST129144 OC22094 (Similar To: AI159233)
OST129154 OC22097 (Similar To: AI427595)
OST129160 OC22099 (Similar To: AA033432)
OST129305 OC22112 (Similar To: AA866930)
OST129385 OC13840 (Similar To: AA254573)
OST129429 OC22122 (Similar To: W53703)
OST129445 OC22124 (Similar To: AA863736)
OST129465 OC22127 (Similar To: AI838686)
OST129501 OC22132 (Similar To: AI467473)
OST129561 OC22139 (Similar To: AA061868)
OST129566 OC22140 (Similar To: AV080665)
OST129573 OC22142 (Similar To: AA549116)
OST129580 OC22143 (Similar To: AU051119)
OST129671 OC22154 (Similar To: AU045249)
OST129867 OC22172 (Similar To: AI466419)
OST129972 OC22186 (Similar To: AI614350)
OST129991 OC22189 (Similar To: AI116579)
OST130005 OC22192 (Similar To: AI787856)
OST130017 OC22194 (Similar To: AI852799)
OST130049 OC22200 (Similar To: AA881601)
OST130098 OC22207 (Similar To: AA546519)
OST130135 OC22213 (Similar To: AI550433)
OST130276 OC22226 (Similar To: AA137855)
OST130279 OC22227 (Similar To: AI449349)
OST130376 OC22243 (Similar To: AA080170)
OST130447 OC22249 (Similar To: AA123768)
OST130449 OC22250 (Similar To: AI854087)
OST130296 OC22230 (Similar To: AA036152)
OST128689 OC22021 (Similar To: AI788442)
OST127345 OC21816 (Similar To: AI225922)
OC21558 OST125775, similar to musEST:AA060014

OC21559 OST125776, similar to genpept:4090239
musEST:AI098805
OC21562 OST125794, similar to gsp:W84267
musEST:AA445393
OC21568 OST125822, similar to genpept:433437
musEST:AA221654
OC21576 OST125904, similar to musEST:AI606999



OC21564 OST125912, similar to sp:P26284
musEST:W14444
OC21578 OST125914, similar to genpept:5764099
musEST:AA209605
OC21579 OST125916, similar to humEST:Z20148
OC21580 OST125919, similar to sp:P70168
OC21581 OST125921, similar to genpept:3776076
musEST:AI006635
OC21596 OST125977, similar to genpept:6014491
musEST:AA871774
OC21599 OST125993, similar to genpept:5880865
musEST:AA717005
OC21606 OST126032, similar to sp:Q03145
musEST:AI325344
OC21607 OST126033, similar to musEST:AA815785

OC21608 OST126034, similar to genpept:1086886
musEST:AA549135
OC21612 OST126052, similar to musEST:AI642663

OC21614 OST126093, similar to genpept:4200234
musEST:AA117035
OC21615 OST126099, similar to genpept:3327196
othEST:AW059255
OC21616 OST126107, similar to sp:P12032
musEST:AA869885
OC21619 OST126146, similar to sp:P16443
musEST:AA638671
OC21624 OST126174, similar to gsp:Y02135
musEST:AA670682
OC21627 OST126183, similar to genpept:4159682
musEST:AV120510
OC21628 OST126191, similar to sp:P05387
musEST:AA710771
OC21634 OST126215, similar to sp:Q98892
musEST:AA762103
OC21636 OST126219, similar to sp:O18968
musEST:AA260373
OC21637 OST126222, similar to genpept:2565396
musEST:AU051053
OC21642 OST126273, similar to musEST:AI508353

OC21643 OST126285, similar to musEST:AW046844



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OC21651 OST126324, similar to sp:P32037
musEST:AA177312
OC21652 OST126329, similar to gsp:R78693
musEST:AI425406
OC21640 OST126335, similar to genpept:5823528
musEST:AI115884
OC21654 OST126345, similar to sp:Q62468
musEST:AI663456
OC21658 OST126364, similar to genpept:2707344
OC21663 OST126416, similar to musEST:AA166560

OC21665 OST126427, similar to gsp:P60956
musEST:AI181068
OC21679 OST126539, similar to musEST:AA563095

OC21682 OST126569, similar to sp:P08033
musEST:AI326489
OC21687 OST126600, similar to sp:P02362
musEST:AA796426
OC21688 OST126626, similar to genpept:3342738
OC21694 OST126695, similar to gsp:Y12504
musEST:AA881842
OC21700 OST126726, similar to sp:Q13796
OC21708 OST126767, similar to genpept:4322936
musEST:AA771056
OC21713 OST126784, similar to sp:P25785
musEST:AI265017
OC21701 OST126814, similar to sp:P02584
musEST:AA027646
OC21722 OST126821, similar to genpept:3873699
musEST:AI466983
OC21723 OST126827, similar to genpept:5931549
musEST:AA000352
OC21735 OST126919, similar to sp:Q62193
musEST:AA266114
OC21734 OST126921, similar to musEST:AW049303

OC21745 OST126967, similar to gsp:R84638
OC21750 OST126979, similar to gsp:R54114
musEST:AI790814
OC21751 OST126981, similar to sp:O09043
musEST:AA106277
OC21754 OST126997, similar to genpept:2130632



musEST:AA445762
OC21764 OST127062, similar to genpept:2150136
musEST:AA152917
OC21770 OST127093, similar to sp:P26438
musEST:AA688904
OC21777 OST127120, similar to genpept:2104558
OC21780 OST127138, similar to sp:P13656
musEST:AA111068
OC21781 OST127154, similar to sp:P41094
musEST:AA038290
OC21786 OST127219, similar to sp:P21677
musEST:AI326744
OC21788 OST127227, similar to gsp:W69436
musEST:AA688634
OC21791 OST127245, similar to humEST:AI693917

OC21794 OST127266, similar to genpept:2352822
musEST:W99912
OC21795 OST127273, similar to musEST:W16254
OC21802 OST127303, similar to musEST:AA272148

OC21803 OST127306, similar to genpept:6013425
musEST:AI315865
OC21815 OST127344, similar to musEST:AW050278

OC21818 OST127347, similar to gsp:R99737
rateEST:AI104838
OC21821 OST127379, similar to genpept:4529843
musEST:AW045124
OC21839 OST127484, similar to musEST:AA071990

OC21841 OST127492, similar to gsp:Y08404
musEST:AI614423
OC21842 OST127504, similar to musEST:AA475011

OC21847 OST127512, similar to musEST:AA197693

OC21850 OST127536, similar to genpept:5817200
OC21862 OST127665, similar to genpept:3319971
musEST:AI226514
OC21864 OST127676, similar to rateEST:R47117
OC21865 OST127677, similar to sp:P23589
musEST:AA254829



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OC21867 OST127687, similar to gsp:W27721

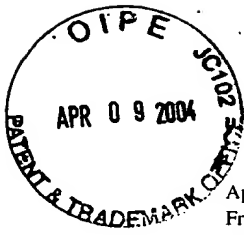
musEST:AA471799
OC21869 OST127697, similar to musEST:AA174702

OC21874 OST127740, similar to musEST:AA983032

OC21883 OST127783, similar to sp:Q63450
musEST:AA983097
OC21900 OST127843, similar to genpept:2587056
musEST:AA170916
OC21902 OST127865, similar to genpept:1469809
musEST:AI956855
OC21910 OST127924, similar to gsp:R27281
musEST:AA794776
OC21912 OST127926, similar to gsp:W31277
musEST:AA111486
OC21917 OST127955, similar to genpept:2911905
ratEST:AI764348
OC21929 OST128039, similar to musEST:AA163617

OC21933 OST128051, similar to gsp:R90577
ratEST:AI549479
OC21935 OST128072, similar to genpept:4589570
OC21939 OST128088, similar to sp:P56603
musEST:AA013693
OC21946 OST128118, similar to genpept:4519623
musEST:AA600647
OC21949 OST128141, similar to genpept:5656743
musEST:AA003784
OC21950 OST128146, similar to musEST:W91302
OC21965 OST128284, similar to sp:O73917
humEST:T27922
OC21969 OST128310, similar to genpept:2289902
OC21975 OST128377, similar to gsp:W89051
musEST:AI181191
OC21977 OST128394, similar to genpept:1864159
musEST:AA272267
OC21987 OST128465, similar to musEST:AA277062

OC21997 OST128565, similar to genpept:2564328
ratEST:AI454404
OC21998 OST128566, similar to musEST:AA867087



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OC21999 OST128568, similar to genpept:3879669
musEST:W53812

OC22001 OST128580, similar to genpept:1938351
musEST:AA261400

OC22006 OST128615, similar to genpept:3319290
musEST:W34526

OC22010 OST128636, similar to sp:P56581
musEST:W98015

OC22011 OST128638, similar to genpept:2662073
musEST:AI322529

OC22013 OST128644, similar to genpept:4959955
musEST:AA048951

OC22014 OST128646, similar to musEST:AA545349

OC22023 OST128699, similar to gsp:R10834
rateEST:AI228538

OC22025 OST128713, similar to gsp:Y02281
musEST:W67047

OC22027 OST128724, similar to musEST:AI119098

OC22041 OST128782, similar to gsp:W19615
musEST:AA230758

OC22043 OST128799, similar to gsp:W67858
musEST:AA756259

OC22049 OST128861, similar to genpept:639819
OC22067 OST128979, similar to musEST:AI527717

OC22068 OST128985, similar to genpept:4092930
OC22072 OST128998, similar to sp:Q07760

musEST:AA259568
OC22077 OST129045, similar to musEST:AA666569

OC22078 OST129049, similar to genpept:2623224
musEST:AA152541

OC22090 OST129129, similar to genpept:5689523
OC22091 OST129131, similar to musEST:AA118026

OC22095 OST129145, similar to musEST:AA273526

OC22096 OST129153, similar to musEST:AA255075

OC22102 OST129178, similar to musEST:AA422257



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OC22107 OST129272, similar to genpept:3406747
musEST:AA667941
OC22114 OST129311, similar to musEST:AW045373

OC22119 OST129408, similar to genpept:4106673
musEST:AA387520
OC22134 OST129514, similar to sp:P53395
musEST:AI172922
OC22137 OST129542, similar to gsp:Y12658
musEST:AI596803
OC22146 OST129608, similar to gsp:W00094
musEST:AA000225
OC21620 OST129662, similar to sp:P12367
musEST:AA066029
OC22155 OST129778, similar to gsp:R79654
musEST:AA013850
OC22166 OST129833, similar to genpept:6019464
musEST:AA451398
OC22170 OST129846, similar to sp:P34670
musEST:AI892537
OC22174 OST129879, similar to genpept:2895097
musEST:AI647763
OC22176 OST129899, similar to genpept:1022718
musEST:AJ006255
OC22182 OST129932, similar to genpept:309519
musEST:AA396024
OC22185 OST129947, similar to genpept:1065515
musEST:AA238413
OC22188 OST129984, similar to gsp:R63789
musEST:W53729
OC22202 OST130060, similar to sp:Q22067
musEST:AA061300
OC22204 OST130074, similar to genpept:5080758
musEST:AI118868
OC22205 OST130085, similar to sp:O74893
musEST:AA033437
OC22217 OST130203, similar to sp:Q60696
musEST:W14130
OC22219 OST130223, similar to genpept:2047352
musEST:AA028667
OC22237 OST130324, similar to genpept:437444
musEST:AI152168
OC22238 OST130338, similar to sp:P38663
musEST:AA154668



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OC22240 OST130345, similar to musEST:AA183581

OC22256 OST130521, similar to musEST:AA023471

OC22258 OST130525, similar to gsp:R79455

musEST:AI225401

OC22259 OST130530, similar to genpept:3986767

musEST:AA119175

OC22263 OST130551, similar to musEST:AA427129

OC22265 OST130573, similar to musEST:AI429109

OC22266 OST130574, similar to gsp:W73473

ratEST:AA965120

OC22267 OST130592, similar to musEST:AV145872

OC22269 OST130625, similar to sp:P51655

musEST:AI893963

OC22272 OST130648, similar to sp:O89086

musEST:W97917

OC22274 OST130673, similar to musEST:AI429614

OC22276 OST130686, similar to genpept:5348334

musEST:W07885

OC22278 OST130691, similar to musEST:AI846903

OC22281 OST130698, similar to sp:P56545

musEST:AA034811

OC22284 OST130708, similar to genpept:6018317

musEST:AI415003

OC22293 OST130758, similar to genpept:469478

musEST:AA014327

OC22294 OST130759, similar to musEST:AA571382

OC22295 OST130776, similar to sp:P04073

musEST:AA120315

OC22300 OST130803, similar to genpept:2177174

musEST:AA034723

OC22303 OST130832, similar to musEST:AA286000

OC22304 OST130836, similar to musEST:AA930456

OC22305 OST130839, similar to musEST:AI851387



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OC22306 OST130840, similar to musEST:AA414925

OC22008 OST130841, similar to gsp:W85610

musEST:AI226464

OC22307 OST130844, similar to genpept:469478

musEST:AA014327

OC22317 OST130884, similar to musEST:AA259430

OC22320 OST130905, similar to sp:O15265

OC22321 OST130908, similar to musEST:AI605583

OC22322 OST130911, similar to genpept:1142640

musEST:AA718206

OC22324 OST130918, similar to musEST:W70839

OC22338 OST131025, similar to genpept:4589670

OC22339 OST131026, similar to gsp:W42400

musEST:AW044949

OC22340 OST131039, similar to genpept:1710988

musEST:AA549145

OC22341 OST131043, similar to genpept:3242764

musEST:AA790651

OC22343 OST131055, similar to musEST:AA691691

OC22344 OST131056, similar to sp:P22978

musEST:AA763541

OC22346 OST131079, similar to gsp:W27087

musEST:AA981010

OC22347 OST131086, similar to genpept:4689258

musEST:AA624926

OC22354 OST131121, similar to musEST:AA874608

OC22356 OST131128, similar to genpept:3135309

musEST:AI465009

OC22365 OST131207, similar to gsp:W28866

musEST:AI430135

OC22366 OST131217, similar to musEST:AA260908

OC22367 OST131226, similar to musEST:AW048792

OC22370 OST131265, similar to gsp:R88555

musEST:AA239928



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OC22372 OST131278, similar to genpept:1552275
musEST:AA895031
OC22377 OST131313, similar to genpept:4151036
musEST:AA796275
OC22394 OST131453, similar to gsp:W37148
musEST:W13849

OC22398 OST131480, similar to gsp:W67438
OC22400 OST131486, similar to gsp:W69224
musEST:W82796
OC22404 OST131498, similar to sp:P55197
musEST:AA254209
OC22405 OST131510, similar to musEST:AA290110

OC22406 OST131521, similar to gsp:Y11384
musEST:AI645801
OC22407 OST131528, similar to sp:P04073
musEST:AA120315
OC22410 OST131546, similar to genpept:3309535
musEST:AA002757
OC22411 OST131552, similar to gsp:W18822
musEST:AI426764
OC22414 OST131567, similar to sp:P22935
musEST:AA106967
OC22418 OST131650, similar to genpept:3335555
musEST:AA155039
OC22420 OST131688, similar to musEST:AA542382

OC22959 OST132630, similar to sp:O35454
musEST:AI049336
OC22801 OST132714, similar to sp:P11842
musEST:AI893671
OC22832 OST132725, similar to genpept:1944328
musEST:AI430391
OC22966 OST132746, similar to sp:P11842
musEST:AI327019
OC22785 OST132764, similar to genpept:5326828
musEST:AI426435
OC22945 OST133117, similar to gsp:P82319
musEST:AA108947
OC22970 OST134728, similar to gsp:R05562
musEST:AI195674
OC22847 OST134853, similar to musEST:AA638664



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FIGURE 2
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OC23013 OST134896, similar to genpept:3127051
musEST:AA451161
OC22860 OST134903, similar to genpept:3924708
musEST:AI427360
OC22784 OST134909, similar to genpept:3851648
musEST:AI849925
OC22802 OST134948, similar to sp:Q64669

musEST:AA067351
OC22910 OST134965, similar to genpept:1710188
musEST:AW049887
OC22885 OST135042, similar to genpept:5081824,
similar to musEST:AA080020 OC22843
OST135056, similar to musEST:C89549
OC22773 OST135075, similar to sp:Q10430,
similar to musEST:AA691890
OC22798 OST135085, similar to sp:P06366
ratEST:AA684774
OC23023 OST135099, similar to musEST:AI391324

OC22939 OST135124, similar to musEST:AA079996